

# t16\_topalg\_2

(TMdrPr3CmKFoaNfBDaxk4Z1rP32jY3yxZPm)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_topmetr : \iota$  be given. Let  $m1\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r4\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_topalg\_2 : \iota \Rightarrow o$  be given. Let  $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_topalg\_2 : \iota$  be given. Let  $k17\_borsuk\_1 : \iota$  be given. Let  $k3\_topmetr : \iota$  be given. Let  $v1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_topalg\_2 X0) \wedge (m1\_pre\_topc \\ & X0 k2\_topalg\_2))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3.(m1\_borsuk\_2 \\ & X3 X0 X1 X2) \Rightarrow (\forall X4.(m1\_borsuk\_2 X4 X0 X1 X2) \Rightarrow (r4\_borsuk\_2 \\ & X0 X1 X2 X3 X4)))))) \end{aligned} \quad (1)$$

Assume the following.

$$v2\_topalg\_2 k5\_topmetr \quad (2)$$

Assume the following.

$$k5\_topmetr = k17\_borsuk\_1 \quad (3)$$

Assume the following.

$$k2\_topalg\_2 = k3\_topmetr \quad (4)$$

Assume the following.

$$(\neg v2\_struct\_0 k17\_borsuk\_1) \wedge ((v1\_pre\_topc k17\_borsuk\_1) \wedge (v2\_pre\_topc k17\_borsuk\_1)) \quad (5)$$

Assume the following.

$$m1\_pre\_topc k5\_topmetr k3\_topmetr \quad (6)$$

## Theorem 1

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 k5\_topmetr)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 k5\_topmetr)) \Rightarrow (\forall X2.(m1\_borsuk\_2 \\ & X2 k5\_topmetr X0 X1) \Rightarrow (\forall X3.(m1\_borsuk\_2 X3 k5\_topmetr X0 \\ & X1) \Rightarrow (r4\_borsuk\_2 k5\_topmetr X0 X1 X2 X3)))) \end{aligned}$$